

## 1. ABSTRACT

**A Vent-** Fresh air intake is installed in an outside wall; and is connected to the Return Air Duct on a furnace system, comprising of a P.V.C. structure with an outer flange. This is for securing the vent structure to the exterior wall surface. The vent housing is structured to include an aluminum, two sided, raised pattern grill; with polymed media filter. This is to prevent vermin, insects, pollen, and pollutants from passing through, and at the same time permitting the ten percent of the air flow required by the national and regional building codes for residential housing. This washable filter is easily removed and reinstalled, due to the pull-tab on the front of the vent structure. The vent housing is designed to prevent snow and rain from entering the fresh air intake duct. The vent can be easily installed, as the configuration is for a retro-fit as well as new homes. This Pre-filter Vent System is an inexpensive way to protect the residential home from unwanted pests.

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